

MasterSheet

022 0103
Revision 03/13/23



Complete Car Audio
Installation Instructions
CRUTCHFIELD

2016-'22
Honda Pilot



IMPORTANT

Before starting, compare items on your invoice with items received. Carefully check through packaging material. If any item is missing, please call **Crutchfield Technical Support** at **1-800-955-9094**.

Although reasonable attempts are made to verify the accuracy of the information contained in this MasterSheet, it is presented without warranties or guarantees of any type due to the constantly changing nature of this type of information and running changes in vehicle production. Any person or entity using this information does so at their own risk. If you find our instructions are different from your vehicle, or if you have questions, do not continue with your installation. Contact our toll-free technical support for assistance.

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Tools Required ▶

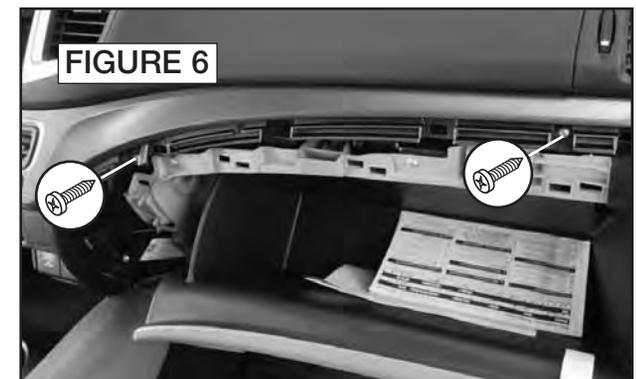
Phillips Screwdriver	Small Flat Blade Screwdriver	8mm	10mm	14mm	Panel Tool	Hacksaw	Towel	Wire Strippers & Crimp Caps
		Socket, Ratchet & Extension						

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IMPORTANT: Disconnect negative battery cable before all operations in order to avoid an electrical short or accidental airbag deployment. Refer to the vehicle's owner's manual for information on disconnecting the battery.

Factory Radio Removal

1. Before proceeding, remove media from factory unit if present.
2. Set parking brake and disconnect negative battery cable to prevent any electrical short.
3. Pry off driver's side dash end cap to release five (5) clips and remove end cap (Figure 1).
4. Pry out driver's knee panel to release clips and pull off panel enough to expose one (1) Phillips screw. Remove screw (Figures 2 & 3).
5. Pry out passenger's side dash end cap to release five (5) clips and remove end cap (Figure 4).
6. Pry off passenger's side dash trim strip to release fifteen (15) clips and remove trim strip (Figure 5).
7. Remove two (2) Phillips screws exposed by removal of passenger's side dash trim strip (Figure 6).



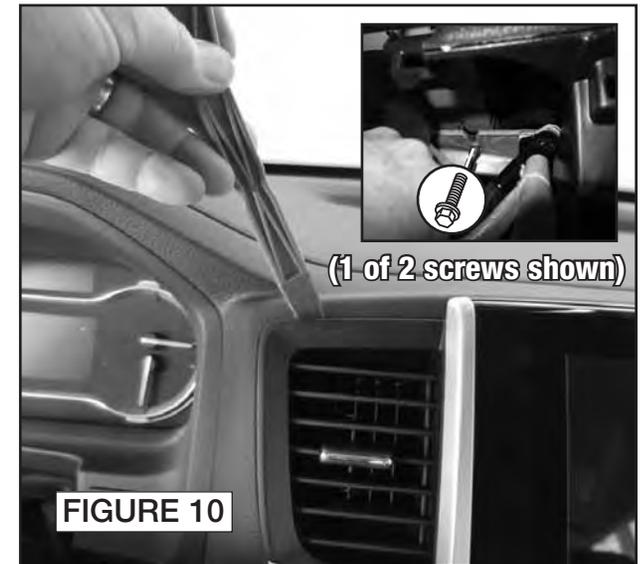
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Factory Radio Removal (continued)

8. Pry off hazard switch panel to release two (2) clips. Wrap panel in a clean shop cloth or towel and allow panel to hang (Figure 7).
9. Starting on the passenger's side, pry out climate control panel to release fourteen (14) clips. Disconnect wiring harnesses and remove panel (Figures 8 & 9).
10. Loosen two (2) 8mm bolts under factory radio securing radio bracket. Pry out radio/vent assembly to release nine (9) clips, disconnect and remove assembly (Figures 10 & 11).



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Receiver Installation



IMPORTANT

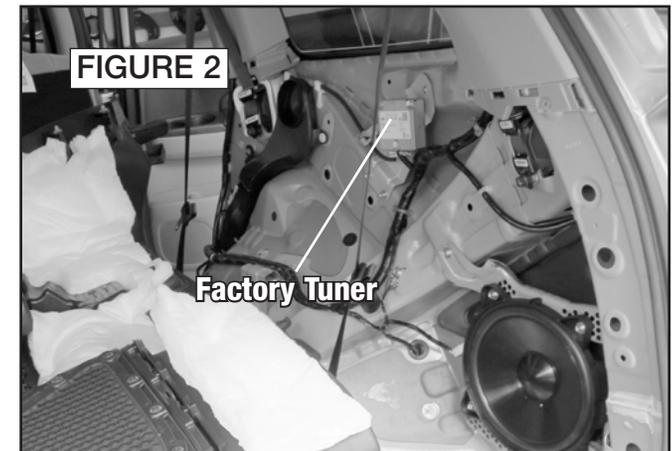
A receiver wiring adapter is not available from Crutchfield at this time for models equipped with a center dash speaker and 2019-'22 non-LX models. It will be necessary to splice into factory wires in order to install an aftermarket receiver. Follow the wire splicing guide and wire functions/color codes on the last pages of this MasterSheet.

A standard DIN unit is shown. A double-DIN receiver may also be installed following these same steps.

1. Secure receiver to mounting bracket following instructions supplied with the dash kit.
2. Make wiring connections following instructions supplied with the receiver wiring adapter if available for your vehicle.
3. Hold receiver assembly near dash (Figure 1). Make the following connections (if applicable) and check that they are secure:
 - receiver wiring adapter or interface
 - antenna lead (using adapter if necessary)
 - Bluetooth® microphone
 - RCA cables
 - climate control harnesses
 - airbag harnesses
 - power outlet harnesses
 - other accessory devices

Note: If your vehicle requires an antenna extension cable, you'll need to route the antenna extension cable from the receiver location to the **factory tuner** behind the passenger's side rear side panel (Figure 2). The antenna adapter will connect at the tuner location. Follow steps 1-11 under "Rear Side Subwoofer" instructions beginning on page 13 to access the tuner module.

4. Secure assembly to dash, then reconnect battery and test operation of all the following functions (if applicable):
 - receiver power
 - AM/FM reception
 - sound from all speakers and sources
 - Bluetooth® operations
 - other accessory devices
5. Reassemble dash by reversing disassembly steps.



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Center Dash Speaker



IMPORTANT

No speaker wiring adapter is available at this time from Crutchfield for this location. It will be necessary to splice wires in order to install an aftermarket speaker.

1. Pry up speaker grille to release six (6) clips. Disconnect harness and remove speaker/grille assembly (Figure 1).
2. Remove two (2) Phillips screws securing speaker and remove speaker (Figure 2).
3. Make wiring connections following instructions on page 16. Return to this page to complete installation.
4. Secure new speaker to grille with screws previously removed.
5. Test speaker operation and reinstall speaker/grille assembly.

NOTES:

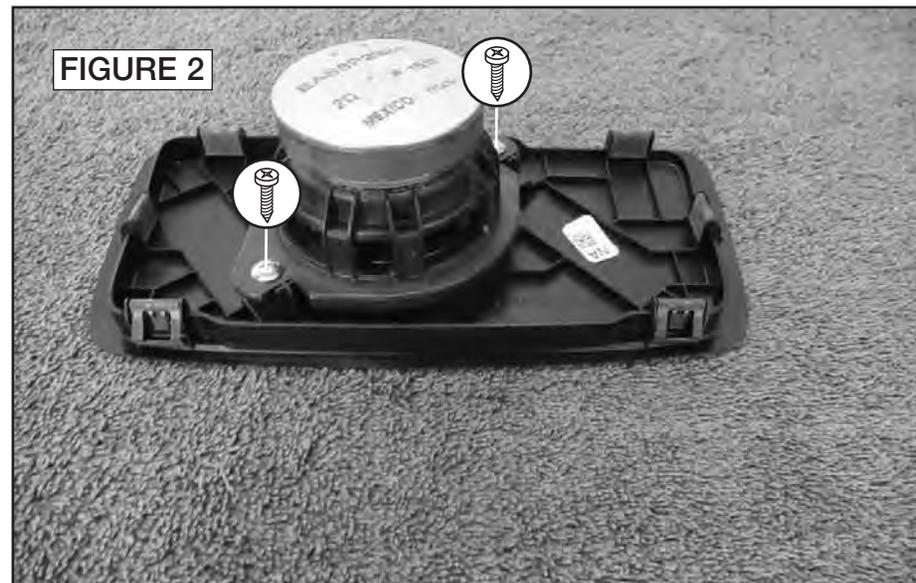
Please read first

- Instructions show factory size speakers or speakers with adapter brackets only. Cutting or fabrication (not shown) will be required for other speaker sizes.

FIGURE 1



FIGURE 2



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Front Pillar Speakers



IMPORTANT

No speaker wiring adapter is available at this time from Crutchfield for this location. It will be necessary to splice wires in order to install an aftermarket speaker.

No speaker adapter bracket is available at this time from Crutchfield for this location. It will be necessary to fabricate a mounting bracket in order to install an aftermarket speaker.

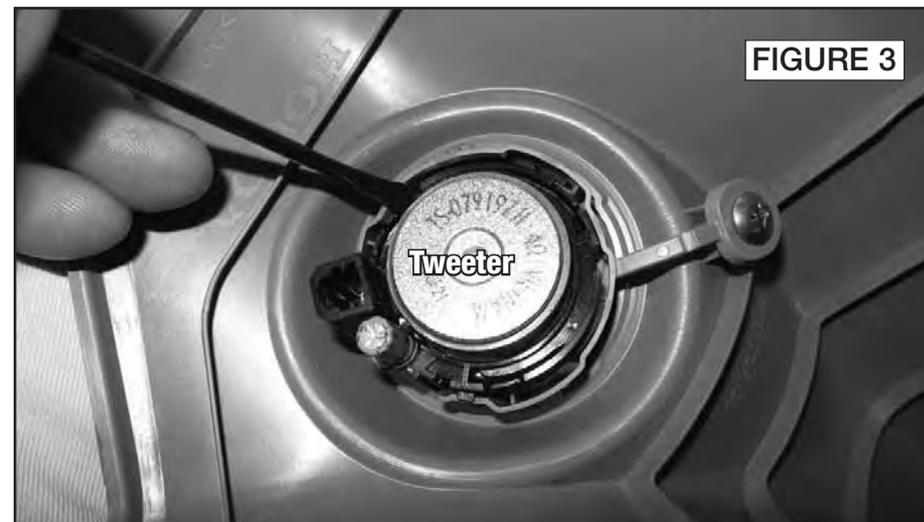
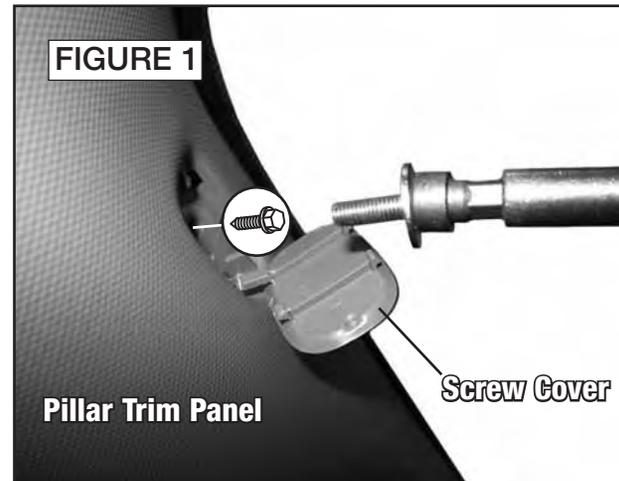
It is possible that the replacement speakers do not have screws supplied. It may be necessary to acquire mounting hardware.

1. Pry open screw cover on pillar trim panel and remove one (1) exposed 8mm screw (Figure 1).
2. Starting at the top, pry off pillar trim panel to release one (1) clip. Disconnect wiring harness and remove trim panel (Figure 2).
3. Pry tweeter off pillar trim panel to release clips and remove tweeter (Figure 3).
4. Fabricate a speaker mounting bracket and secure speaker to bracket.
5. Make wiring connections following instructions on page 16. Return to this page to complete installation.
6. Secure speaker/bracket assembly to pillar trim panel.
7. Test speaker operation and reassemble by reversing disassembly steps.

NOTES:

Please read first

- Instructions show factory size speakers or speakers with adapter brackets only. Cutting or fabrication (not shown) will be required for other speaker sizes.



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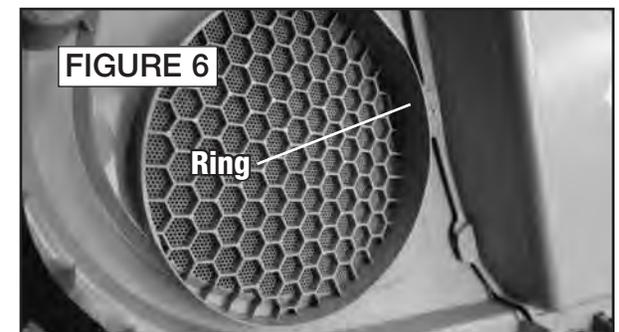
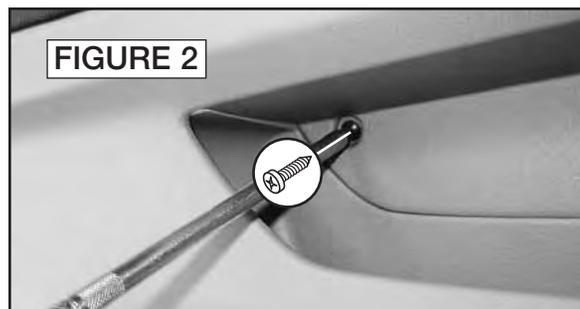
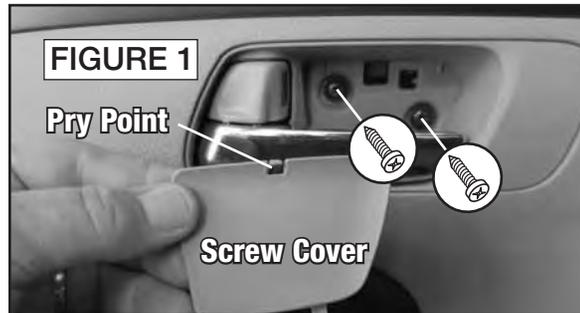
Front Door Speakers

NOTES:

Please read first

- Instructions show factory size speakers or speakers with adapter brackets only. Cutting or fabrication (not shown) will be required for other speaker sizes.

1. Using the pry point, pry off screw cover behind door release and remove two (2) exposed Phillips screws (Figure 1).
2. Remove one (1) Phillips screw under armrest (Figure 2).
3. Pry out sides and bottom of door panel to release ten (10) clips. Lift door panel, disconnect door lock/release assembly. Disconnect wiring harnesses and remove door panel (Figures 3 & 4).
4. Remove one (1) 8mm screw securing top of speaker. Lift speaker, disconnect and remove (Figure 5).
5. Carefully cut off ring (plastic speaker surround) on back of speaker grille to allow new speaker to fit (Figure 6).
6. Secure new speaker to adapter bracket.
7. Connect speaker wiring adapter of replacement speaker to vehicle speaker harness. Secure speaker/bracket assembly to location.
8. Test speaker operation and reassemble door panel by reversing disassembly steps.



CAUTION

Always be careful when drilling or cutting in a vehicle. WEAR EYE PROTECTION. Be aware of things such as wiring, windows, fuel lines and safety devices. Check depth and location to avoid damage to vehicle appearance.



SAFETY CHECK

- Check that wires do not interfere with window operation.
- Test door lock and release operation.



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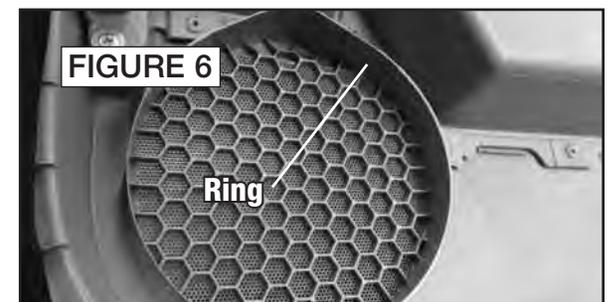
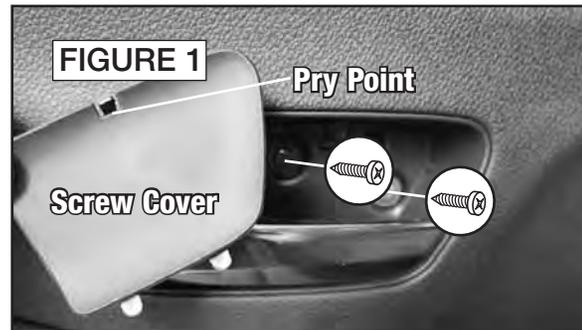
Rear Door Speakers

NOTES:

Please read first

- Instructions show factory size speakers or speakers with adapter brackets only. Cutting or fabrication (not shown) will be required for other speaker sizes.

1. Using the pry point, pry off screw cover behind door release and remove two (2) exposed Phillips screws (Figure 1).
2. Pry out screw cover inside door pull cup and remove one (1) exposed Phillips screw (Figure 2).
3. Pry out sides and bottom of door panel to release ten (10) clips. Lift door panel, disconnect door lock/release assembly. Disconnect wiring harnesses and remove door panel (Figures 3 & 4).
4. Remove one (1) 8mm screw securing top of speaker. Lift speaker, disconnect and remove (Figure 5).
5. Carefully cut off ring (plastic speaker surround) on back of speaker grille to allow new speaker to fit (Figure 6).
6. Secure new speaker to adapter bracket.
7. Connect speaker wiring adapter of replacement speaker to vehicle speaker harness. Secure speaker/bracket assembly to location.
8. Test speaker operation and reassemble door panel by reversing disassembly steps.



CAUTION

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SAFETY CHECK

- Check that wires do not interfere with window operation.
- Test door lock and release operation.

Rear Pillar Speakers



IMPORTANT

No speaker wiring adapter is available at this time from Crutchfield. It will be necessary to splice wires in order to install an aftermarket speaker.

A speaker adapter bracket is available from Crutchfield for this location. It will be necessary to modify the mounting surface before installing the new speaker.

It is possible that the replacement speakers do not have screws supplied. It may be necessary to acquire mounting hardware.

1. Pull up cargo floor panel and remove (Figure 1).
2. Pry up cargo door scuff plate to release six (6) clips and remove scuff plate (Figure 2).
3. Pry open screw covers on both lower cargo hooks and remove one (1) Phillips screw at each location. Remove hooks (Figure 3).
4. Starting at the bottom edge, pry open screw cover on upper rear cargo hook and remove one (1) 8mm screw. Remove hook (Figure 4).
5. Pry open screw cover inside rear side panel pull cup and remove one (1) Phillips screw (Figure 5).

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NOTES:

Please read first

- Instructions show factory size speakers or speakers with adapter brackets only. Cutting or fabrication (not shown) will be required for other speaker sizes.



Rear Pillar Speakers (continued)

6. Pull door gasket away along rear side panel (Figure 6).
7. Pry open screw cover on rear pillar trim panel and remove one (1) 10mm screw (Figure 7).
8. Pry off courtesy light lens on upper cargo door trim and remove two (2) exposed 8mm screws (Figures 8 & 9).
9. Pry off upper cargo door trim to release ten (10) clips. Disconnect wiring harness and remove trim panel (Figure 10).
Note: The panel will remain tethered to the seat belt.
10. Pry up driver's side rear door scuff plate to release nine (9) clips and remove panel (Figure 11).

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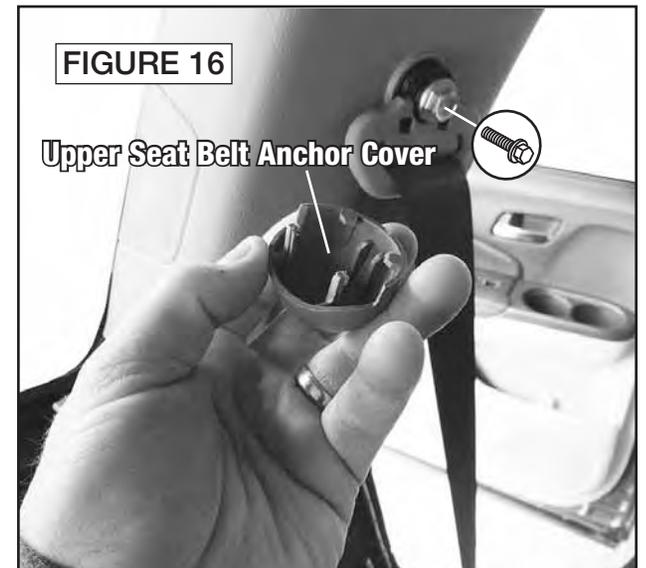
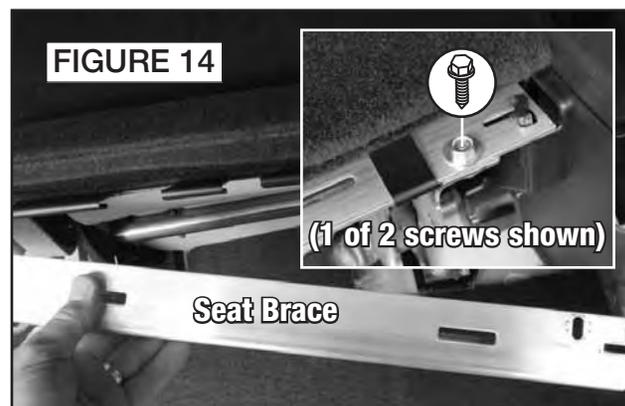
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Rear Pillar Speakers (continued)

11. Remove jack storage compartment cover (Figure 12).
12. Pry up third row seat base trim to release seven (7) clips and remove trim (Figure 13).
13. Remove two (2) 10mm screws exposed by removal of third row seat base trim, then unclip seat brace to remove (Figure 14).
14. Pry out top edge and sides of rear side panel to release eleven (11) clips. Disconnect wiring harness and pull out panel to remove (Figure 15).
15. Pry off second row upper seat belt anchor cover and remove one (1) exposed 14mm bolt, then allow anchor to hang by seat belt (Figure 16).

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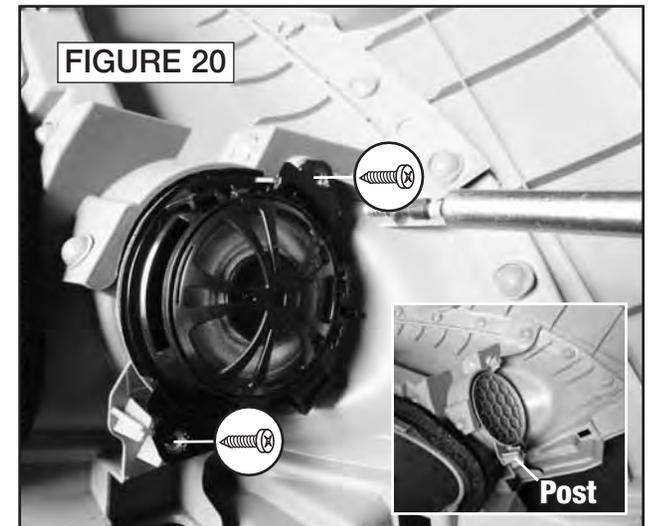
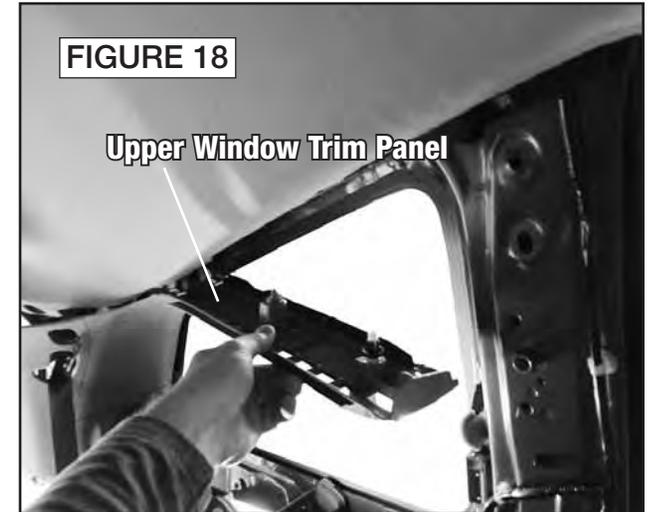


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Rear Pillar Speakers (continued)

16. Pry out lower edge of middle pillar trim panel to release three (3) clips and remove trim panel (Figure 17).
17. Pry down upper window trim panel to release two (2) clips and remove trim panel (Figure 18).
18. Pry out rear pillar trim panel to release three (3) clips. Push panel toward rear of vehicle, disconnect wiring harness and remove trim panel (Figure 19).
19. Remove two (2) Phillips screws securing speaker to trim panel and remove speaker (Figure 20).
20. Secure new speaker to adapter bracket.
21. Trim off post on mounting surface to allow speaker/bracket assembly to fit (Figure 20).
22. Make wiring connections following instructions on page 16. Return to this page to complete installation.
23. Secure speaker/bracket assembly to location.
24. Test operation and reassemble rear of vehicle by reversing disassembly steps.



SAFETY CHECK

- Make sure seats and seat belts are secured to manufacturer's specifications.

CAUTION

Always be careful when drilling or cutting in a vehicle. **WEAR EYE PROTECTION.** Be aware of things such as wiring, windows, fuel lines and safety devices. Check depth and location to avoid damage to vehicle appearance.

Rear Side Subwoofer



IMPORTANT

No speaker adapter bracket is available at this time from Crutchfield for this location. It will be necessary to fabricate a mounting bracket in order to install an aftermarket speaker.

It is possible that the replacement speaker does not have screws supplied. It may be necessary to acquire mounting hardware.

1. Pull up cargo floor panel and remove (Figure 1).
2. Pry up cargo door scuff plate to release six (6) clips and remove scuff plate (Figure 2).
3. Pry open screw cover on upper rear cargo hook and remove one (1) exposed 8mm screw. Remove hook (Figure 3).
4. Pry open screw cover on lower rear cargo hook and remove one (1) exposed Phillips screw. Remove hook (Figure 4).
5. Pry open screw cover on lower front cargo hook and remove one (1) exposed Phillips screw. Remove hook (Figure 5).

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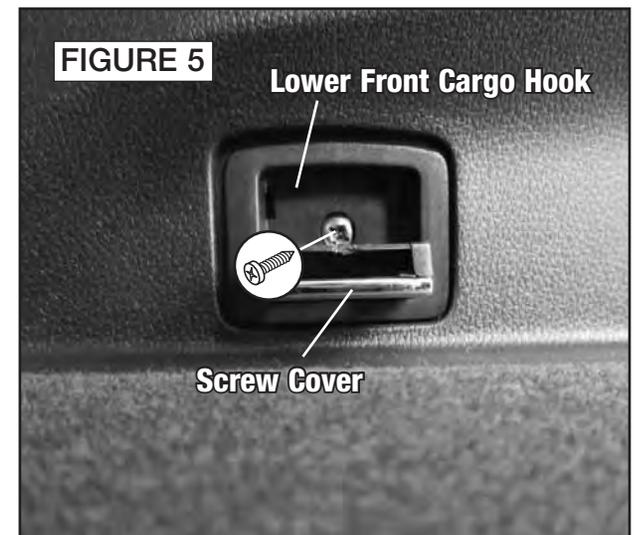
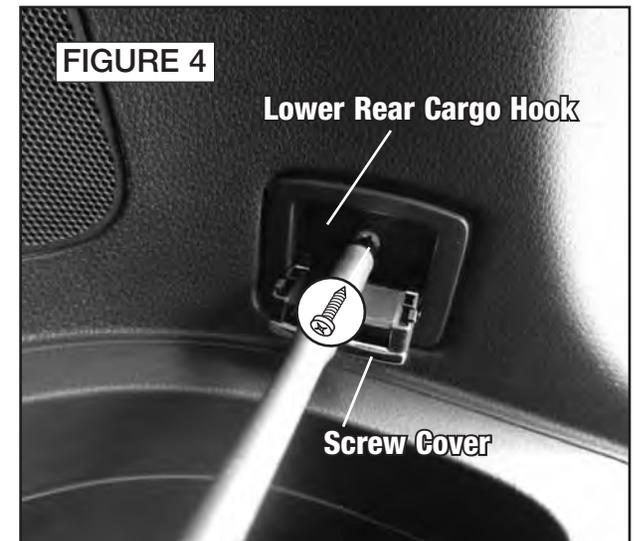
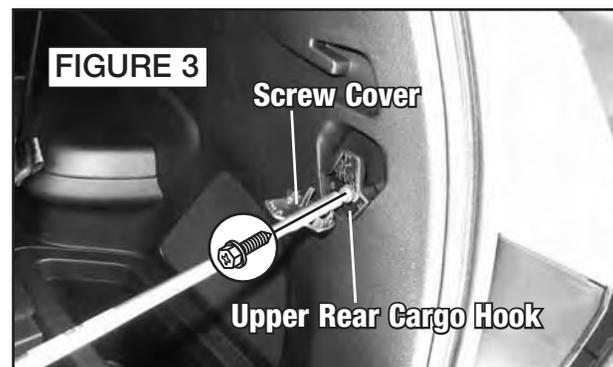
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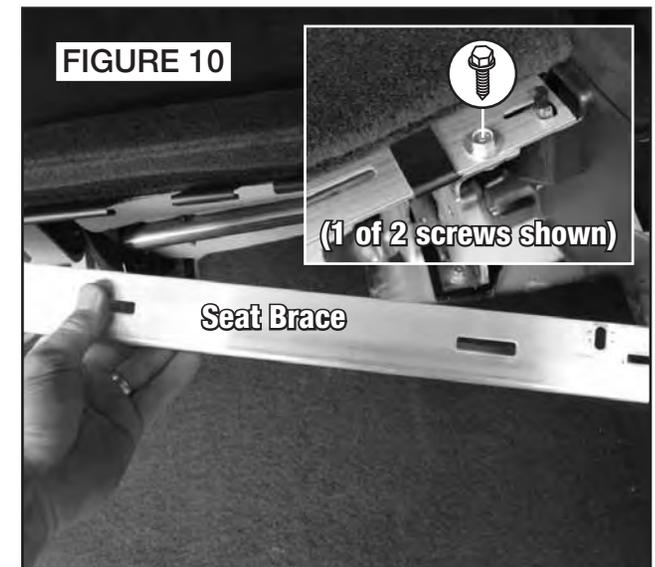
- Instructions show factory size speakers or speakers with adapter brackets only. Cutting or fabrication (not shown) will be required for other speaker sizes.



Rear Side Subwoofer (continued)

6. Pry open screw cover inside rear side panel pull cup and remove one (1) Phillips screw (Figure 6).
7. Pry up back portion of passenger's side door scuff plate to release nine (9) clips and remove scuff plate (Figure 7).
8. Pull door gasket away from body on passenger's side (Figure 8).
9. Pull third row seat base trim toward rear of vehicle to remove (Figure 9).
10. Remove two (2) 10mm screws exposed by removal of third row seat base trim, then unclip seat brace to remove (Figure 10).

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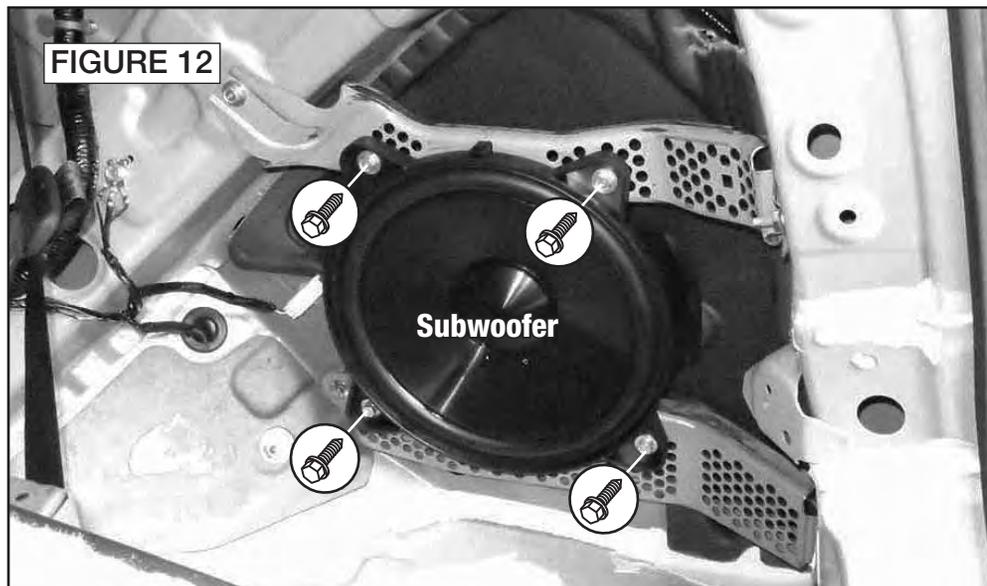


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Rear Side Subwoofer (continued)

11. Pry out sides and top of rear side panel to release eight (8) clips. Lift panel and remove (Figure 11).
12. Remove four (4) 10mm screws securing subwoofer to bracket. Pull out subwoofer, disconnect and remove (Figure 12).
13. Fabricate a speaker mounting bracket and secure new subwoofer to bracket.
14. Connect vehicle speaker wiring to subwoofer. Secure subwoofer/bracket assembly to location.
15. Test speaker operation and reassemble by reversing disassembly steps.



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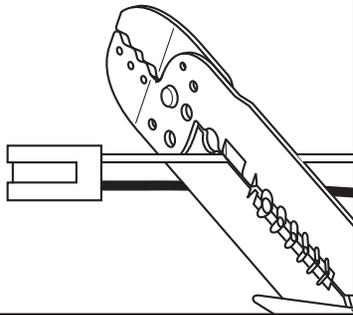
Wire Splicing Guide

These methods can be used to make wiring connections if no receiver or speaker wiring adapter is available. Wire color information (if available) can be found on the next page.

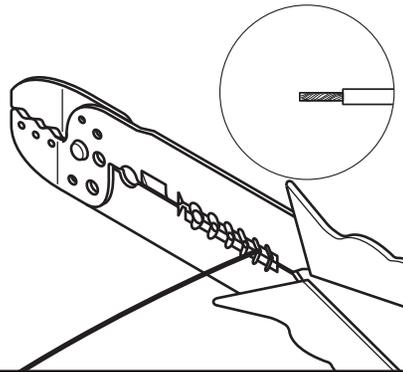
CRIMP METHOD

Factory harness is removed. Save harness if it is to be reconnected in the future by this method.

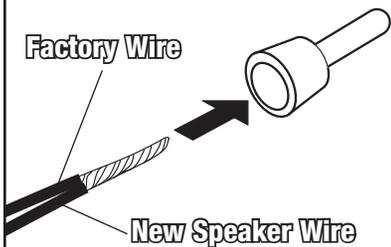
1. Cut factory wires behind factory speaker harness.



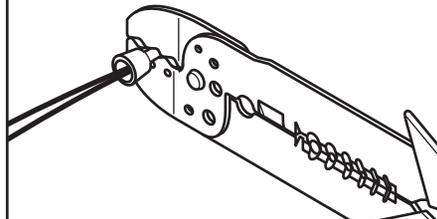
2. Strip end of each wire back 1/2".



3. Twist each positive pair of wires together and insert in crimp cap. Repeat step for negative wires.



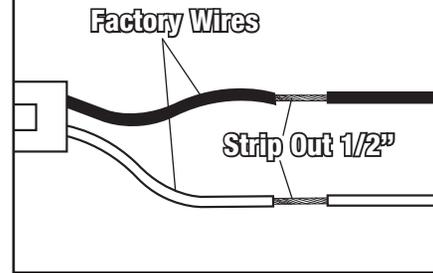
4. Squeeze middle of cap for tight connection.
5. Connect new wires to speaker with spade connectors.



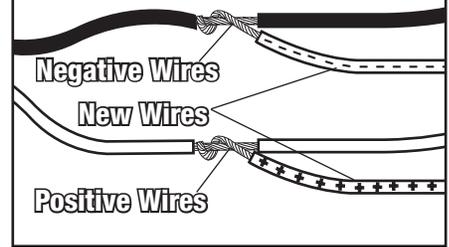
SOLDER METHOD

New speaker wires are spliced into factory wires behind harness.

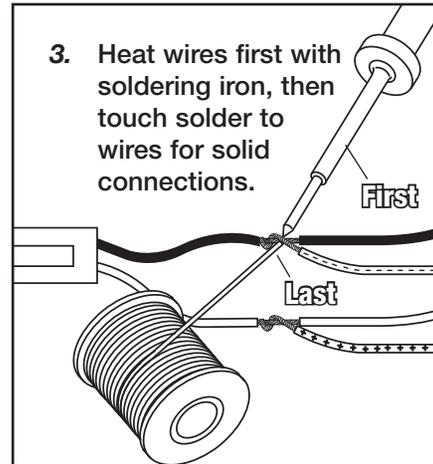
1. Carefully strip out a 1/2" section on each factory speaker wire behind the factory speaker harness.



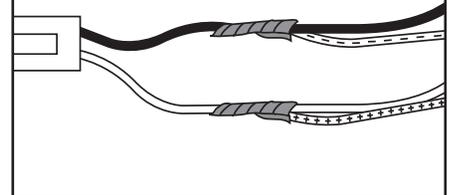
2. Twist wires from new speaker to stripped sections of factory wires as shown making sure polarity is correct.



3. Heat wires first with soldering iron, then touch solder to wires for solid connections.



4. Wrap wiring connections with electrical tape.
5. Connect new wires to speaker with spade connectors.



Wire Splicing Guide (continued)

NOTE: In most cases a speaker wiring adapter is available from Crutchfield and splicing will not be necessary. If no adapter is available, use this chart as a guide to match and splice wires.

Function	Polarity/Color/Location
Constant 12 volts (2016-2018 and 2019-2022 with 5" LCD)	radio, 24-pin plug, pin 13 - violet or yellow
Constant 12 volts (2019-2022 with 8" LCD)	Infotainment control unit behind screen, 20-pin plug, pin 2 - light blue
Accessory 12 volts (2016-2018 and 2019-2022 with 5" LCD)	radio, 24-pin plug, pin 23 - violet or green
Ground (2016-2018 and 2019-2022 with 5" LCD)	radio, 24-pin plug, pin 1 - black
Ground (2019-2022 with 8" LCD)	Infotainment control unit behind screen, 20-pin plug, pin 1 - black
Amplifier turn-on (2016-2018)	radio, 24-pin plug, pin 20 - tan
Amplifier turn-on (2019-2022 with 5" LCD)	radio, 24-pin plug (C), pin 11 - tan
Amplifier turn-on (2019-2022 with 8" LCD)	amplifier, 17-pin plug, pin 4 or 24-pin plug, pin 16 - tan
Power antenna/antenna booster (5" LCD)	radio, 3-pin plug, pin 1 - black
Power antenna/antenna booster (8" LCD)	tuner in right rear quarter panel, 5-pin plug, pin 1 - black
Left front pillar tweeter	Positive (+): green or white, Negative (-): red or tan
Right front pillar tweeter	Positive (+): violet, Negative (-): yellow
Center dash speaker	Positive (+): tan, Negative (-): light green
Left front door speaker/woofer	Positive (+): green or blue, Negative (-): red or yellow
Right front door speaker/woofer	Positive (+): gray or light blue, Negative (-): brown or gray
Left rear door speaker	Positive (+): gray or light green, Negative (-): brown or blue
Right rear door speaker	Positive (+): pink, Negative (-): blue or violet
Left rear pillar speaker	Positive (+): red, Negative (-): green
Right rear pillar speaker	Positive (+): brown, Negative (-): gray
Rear side panel subwoofer	Positive (+): red, Negative (-): white

Continued on the next page.



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Wire Splicing Guide (continued)

NOTE: In most cases a speaker wiring adapter is available from Crutchfield and splicing will not be necessary. If no adapter is available, use this chart as a guide to match and splice wires.

Function	Polarity/Color/Location
Vehicle speed sense ¹	passenger's kick panel, 28-pin plug, pin 27 (some models only) - green
Reverse (+) ¹	dash fuse box, 44-pin plug (D), pin 21 - brown
Parking brake ¹	below dash fuse box, 14-pin plug, pin 4 or 20-pin plug, pin 14 - yellow
Foot brake ¹	brake pedal switch or KACU ² , gray 36-pin plug, pin 19 - violet
NOTES: <ul style="list-style-type: none"> • The speaker wire colors listed on the previous page are at the speaker location unless otherwise noted. • If equipped with a factory amplifier, the amplifier will be located above the passenger's side knee panel. Amplifier wiring can be found on the next page. • ¹These wires and functions may also be generated by the OEM integration interface used when replacing the radio. • ²KACU (Keyless Access Control Unit) is located above the glove box. 	

Continued on the next page.

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Amplifier Wiring Guide

NOTE: In most cases a speaker wiring adapter is available from Crutchfield and splicing will not be necessary. If no adapter is available, use this chart as a guide to match and splice wires.

PIN #	FUNCTION/POLARITY	COLOR
1	Right rear pillar speaker (+)	brown
2	Right rear pillar speaker (-)	gray
3	Left rear pillar speaker (+)	red
4	Left rear pillar speaker (-)	green
5-8		
9	Ground	black
10	Left front door speaker (+)	dark green
11	Left front door speaker (-)	red
12	Right rear door speaker (-)	blue
13	Right rear door speaker (+)	pink
14	Left rear door speaker (-)	brown
15	Left rear door speaker (+)	gray
16	Center dash speaker (+)	tan
17	Rear side panel subwoofer (+)	red
18	Constant 12 volts	yellow
19	Right front door speaker (-)	brown
20	Right front door speaker (+)	gray
21	Left front pillar tweeter (+)	white
22	Left front pillar tweeter (-)	tan
23	Right front pillar tweeter (+)	violet
24	Right front pillar tweeter (-)	yellow
25	Center dash speaker (-)	light green
26	Rear side panel subwoofer (-)	white
27		
28	Function unknown at this time.	gray

PIN #	FUNCTION/POLARITY	COLOR
29	Function unknown at this time.	dark green
30	Function unknown at this time.	black
31		
32	Function unknown at this time.	pink
33	Function unknown at this time.	light green
34	Function unknown at this time.	light blue
35	Function unknown at this time.	dark blue
36	Function unknown at this time.	dark green
37	Function unknown at this time.	red
38		
39	Function unknown at this time.	tan
40	Function unknown at this time.	yellow
41		
42	Function unknown at this time.	violet
43	Function unknown at this time.	red
44	Function unknown at this time.	white
45	Function unknown at this time.	red
46	Function unknown at this time.	violet
47	Function unknown at this time.	dark blue
48	Function unknown at this time.	gray
49	Function unknown at this time.	yellow
50	Function unknown at this time.	white
51	Function unknown at this time.	black
52-53		
54	Function unknown at this time.	brown